

FIG. 1

USER'S WIRELESS
DEVICE 100

BROWSER 102	
AUTODETECT GPS CAPABILITY [GPS ENABLED]	
AUTODETECT MOBILE LOCATION [N/A]	
AUTODETECT LOCATION? Y/N " _N_"	
ENTER LOCATOR TOLERANCE: [1-50] [MI/KM]	
ENTER DEFAULT USER LOCATION: "HOME_/_WORK"	
ENTER LOCATION : [1] "STREET_ADDRESS" [2] "CITY_OR_PROVENCE" [3] "COUNTRY" [4] "ZIP_OR_MAIL_CODE" [5] "TELEPHONE_/_AREA_CODE"	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1A

USER'S WIRELESS
DEVICE 100

BROWSER 102	
AUTODETECT GPS CAPABILITY [GPS ENABLED]	
AUTODETECT MOBILE LOCATION [N/A]	
AUTODETECT LOCATION? Y/N " _Y_"	
"GPS_AUTODETECT_EXECUTING..."	
GPS COORDINATE DISPLAYED	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1B

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES BROWSE UDDI REGISTRY FOR WEB SITE URLS BASED ON LOCATION	
ENTER LOCATION HANDLE: " _DC_TRIP _" AUTO-UPDATE ENABLE? Y/N: "Y"	
ENTER SEARCH HANDLE: " _RESTAURANT _"	
ENTER FIRST TERM: " _MIDDLE_EAST* _" IS THIS A BUSINESS? Y/N " _Y _" IS THIS A SERVICE? Y/N " _N _"	
ENTER SECOND TERM: " _KABOB _" IS THIS A BUSINESS? Y/N " _Y _" IS THIS A SERVICE? Y/N " _N _"	
SEND " _find_business" XML INQUIRY WITH SOAP PROTOCOL	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1C

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES RESULTS FROM BROWSING UDDI REGISTRY UNDER LOCATION HANDLE " _DC_TRIP _" AND SEARCH HANDLE " _RESTAURANT _"	
RETURNED businessList MESSAGE: (1) MIDDLE EASTERN DINING IN DC (2) HOUSE OF KABOB (3) KABOB PALACE (4) KABOB EMPORIUM	
CHECK LOCATION AUTO-UPDATE SELECT ITEM FROM RETURNED LIST OR CONTINUE BROWSING	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1D

USER'S WIRELESS
DEVICE 100

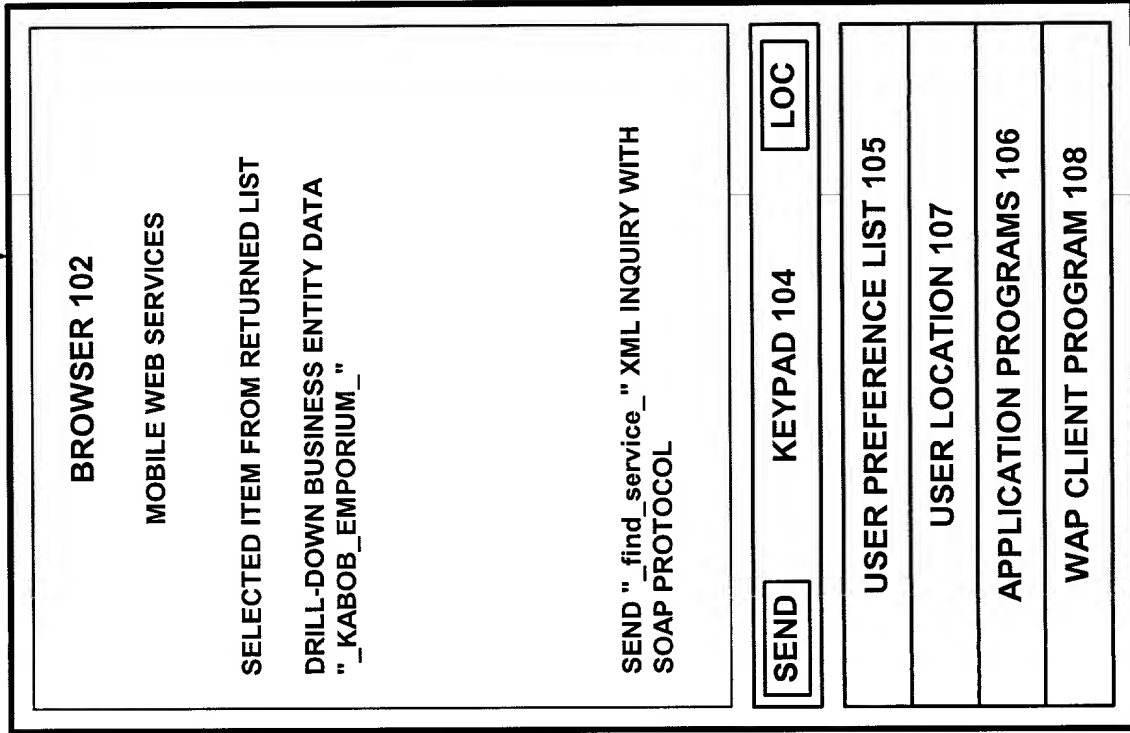


FIG. 1E

USER'S WIRELESS
DEVICE 100

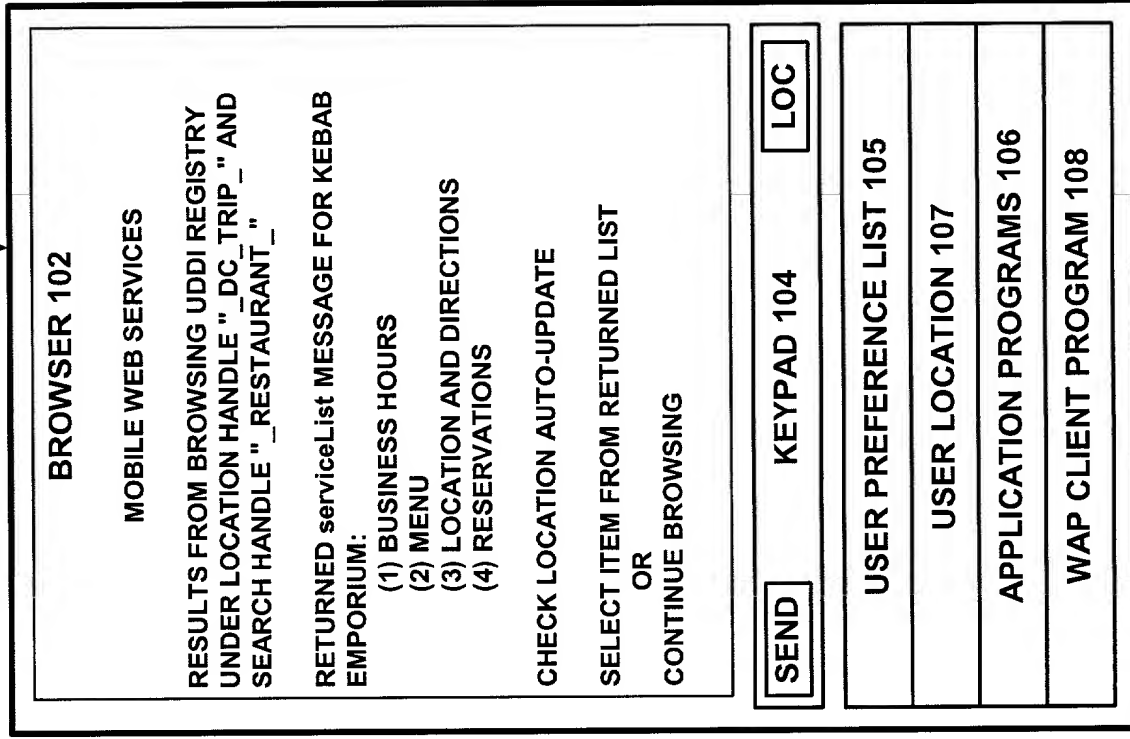


FIG. 1F

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES	
SELECT ITEM FROM RETURNED LIST	
DRILL-DOWN BUSINESS SERVICE DATA	
" _MENU _"	
SEND "_get_serviceDetail_" XML INQUIRY WITH SOAP PROTOCOL	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1G

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES	
RESULTS FROM BROWSING UDDI REGISTRY	
UNDER LOCATION HANDLE "_DC_TRIP_" AND	
SEARCH HANDLE "_RESTAURANTS_"	
RETURNED serviceDetail MESSAGE FOR	
" _MENU _"	
(1) BREAKFAST	
(2) LUNCH	
(3) DINNER	
(4) CURRENT SPECIALS	
SELECT ITEM FROM RETURNED LIST	
OR	
CONTINUE BROWSING	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1H

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES	
SELECT ITEM FROM RETURNED LIST	
DISPLAY AND STORE accessPoint URL FROM BINDING TEMPLATE DATA IN RETURNED serviceDetail MESSAGE FOR " _DINNER_ "	
<input type="button" value="SEND"/>	<input type="button" value="KEYPAD 104"/> <input type="button" value="LOC"/>
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1I

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES	
RESULTS FROM BROWSING UDDI REGISTRY UNDER LOCATION HANDLE " _DC_TRIP_ " SEARCH HANDLE " _RESTAURANTS_ "	
RETURNED accessPoint URL FROM BINDING TEMPLATE DATA IN RETURNED serviceDetail MESSAGE FOR " _RESERVATIONS_ "	
URL : " _WWW.KABOBEMPORIUM.COM\MENU\ DINNER_ "	
SELECT ITEM FROM RETURNED LIST OR CONTINUE BROWSING	
<input type="button" value="SEND"/>	<input type="button" value="KEYPAD 104"/> <input type="button" value="LOC"/>
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1J

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES	
ENTER LOCATION OR SEARCH HANDLE TO USE PROFILE FROM A PRIOR SEARCH	
ENTER LOCATION HANDLE: "_DC_TRIP_" ENTER SEARCH HANDLE: "_RESTAURANTS_"	
SELECT TYPE OF SEARCH: (1) GET WEB PAGES FROM WEB SITE (2) REPLAY UDDI REGISTRY SEARCH STRATEGY	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1K

USER'S WIRELESS
DEVICE 100

BROWSER 102	
MOBILE WEB SERVICES	
RESULTS FROM REPLAYING UDDI SEARCH UNDER LOCATION HANDLE "_DC_TRIP_" AND SEARCH HANDLE "_RESTAURANTS_"	
RETURNED accessPoint URL FROM BINDING TEMPLATE DATA IN RETURNED serviceDetail MESSAGE FOR "_DINNER_"	
URLS: "_WWW.KEBABEMPORIUM.COM/RSVP/DINNER_" "_WWW.KEBABEMPORIUM.COM/SPECIALS/ DINNER_" "_WWW.KEBABEMPORIUM.COM/MENU/DINNER_"	
SELECT ITEM FROM RETURNED LIST OR CONTINUE BROWSING	
SEND	KEYPAD 104 LOC
USER PREFERENCE LIST 105	
USER LOCATION 107	
APPLICATION PROGRAMS 106	
WAP CLIENT PROGRAM 108	

FIG. 1L

FIG. 2

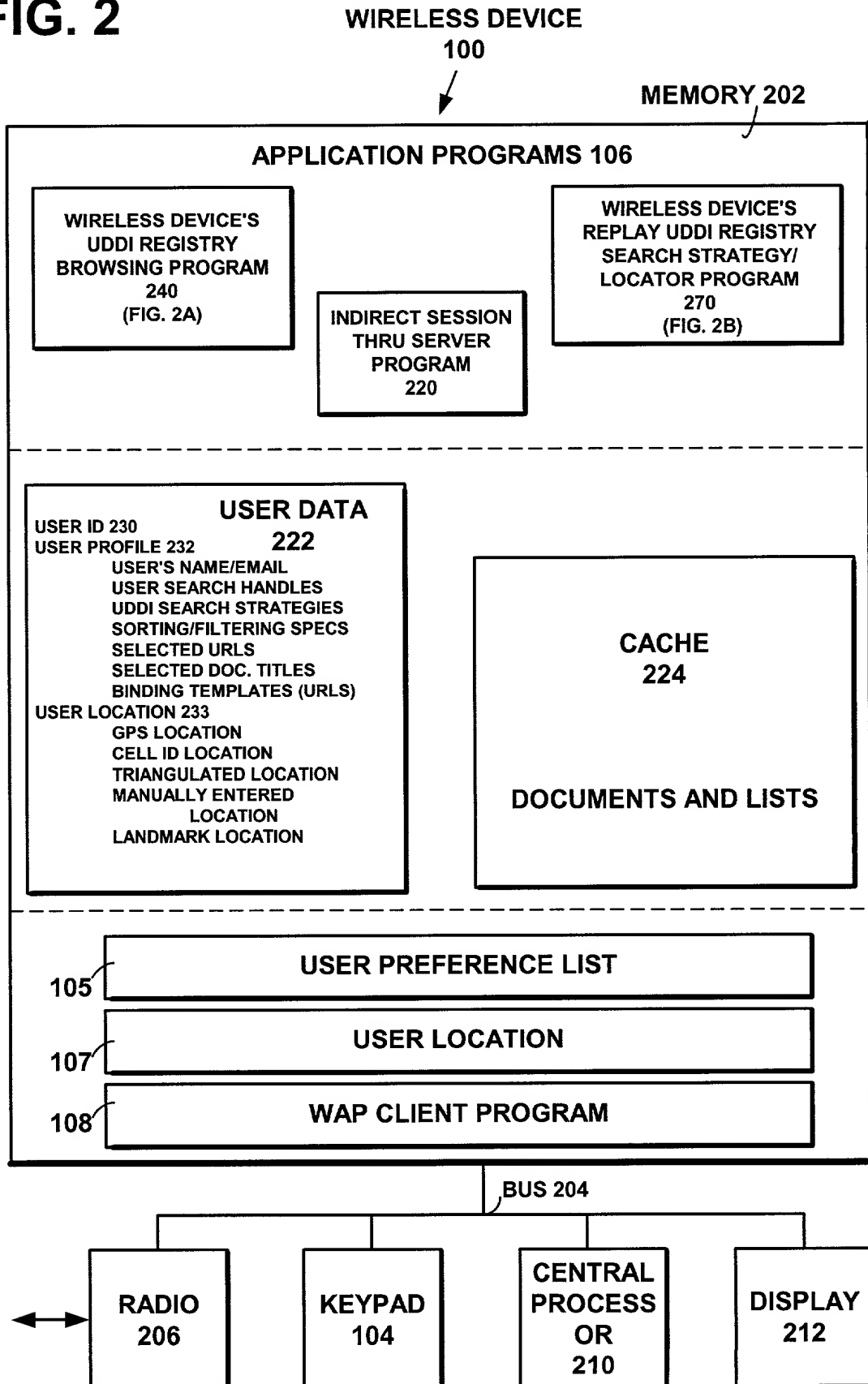


FIG. 2A

WIRELESS
DEVICE'S
UDDI
REGISTRY
BROWSING
PROGRAM
240



WIRELESS DEVICE BROWSING UDDI REGISTRY
ENTER LOCATION HANDLE "_DC_TRIP_"
ENTER SEARCH HANDLE "RESTAURAUNT "

250

ENTER QUERY TERMS "_MIDDLE_EAST*" + "_KABOB_"
IS THIS A BUSINESS NAME? Y/N "Y"
IS THIS A SERVICE NAME? Y/N "N"

252

SEND "_find_business_" XML INQUIRY WITH SOAP PROTOCOL
TO UDDI REGISTRY WITH APPENDED LOCATOR

254

SELECT ITEM FROM RETURNED businessList MESSAGE
DRILL-DOWN BUSINESS ENTITY DATA
"_KABOB_EMPORIUM_"

256

SEND "_find_service_" XML INQUIRY WITH SOAP
PROTOCOL TO UDDI REGISTRY WITH APPENDED
LOCATOR

258

SELECT ITEM FROM RETURNED serviceList MESSAGE
DRILL-DOWN BUSINESS SERVICE DATA
"_MENU_"

260

SEND "_get_serviceDetail_" XML INQUIRY WITH
SOAP PROTOCOL TO UDDI REGISTRY

262

SELECT ITEM OF RETURNED serviceDetail MESSAGE
DISPLAY accessPoint URL
FROM bindingTemplate DATA "MENU"
IN RETURNED serviceDetail MESSAGE

URL = "_www.kebabemporium.com\menu_"

264

STORE SEARCH HANDLE "_RESTAURANTS_" IN USER PROFILE WITH
APPENDED LOCATOR HANDLE "_DC_TRIP_"
SELECTED URL = "_www.kebabemporium.com\menu_"

266

STORE SEARCH HANDLE "_RESTAURANT_" WITH APPENDED LOCATOR HANDLE IN USER
PROFILE WITH UDDI REGISTRY SEARCH STRATEGY:
BUSINESS NAME QUERY "_MIDDLE_EAST*" + "_KABOB_"
businessEntity DATA SELECTED "_KABOB_EMPORIUM_"
businessService DATA SELECTED "_MENU_"
bindingTemplate DATA SELECTED "_DINNER_"
accessPoint URL SELECTED "_www.kebabemporium.com\menu\dinner_"

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FIG. 2A

FIG. 2B

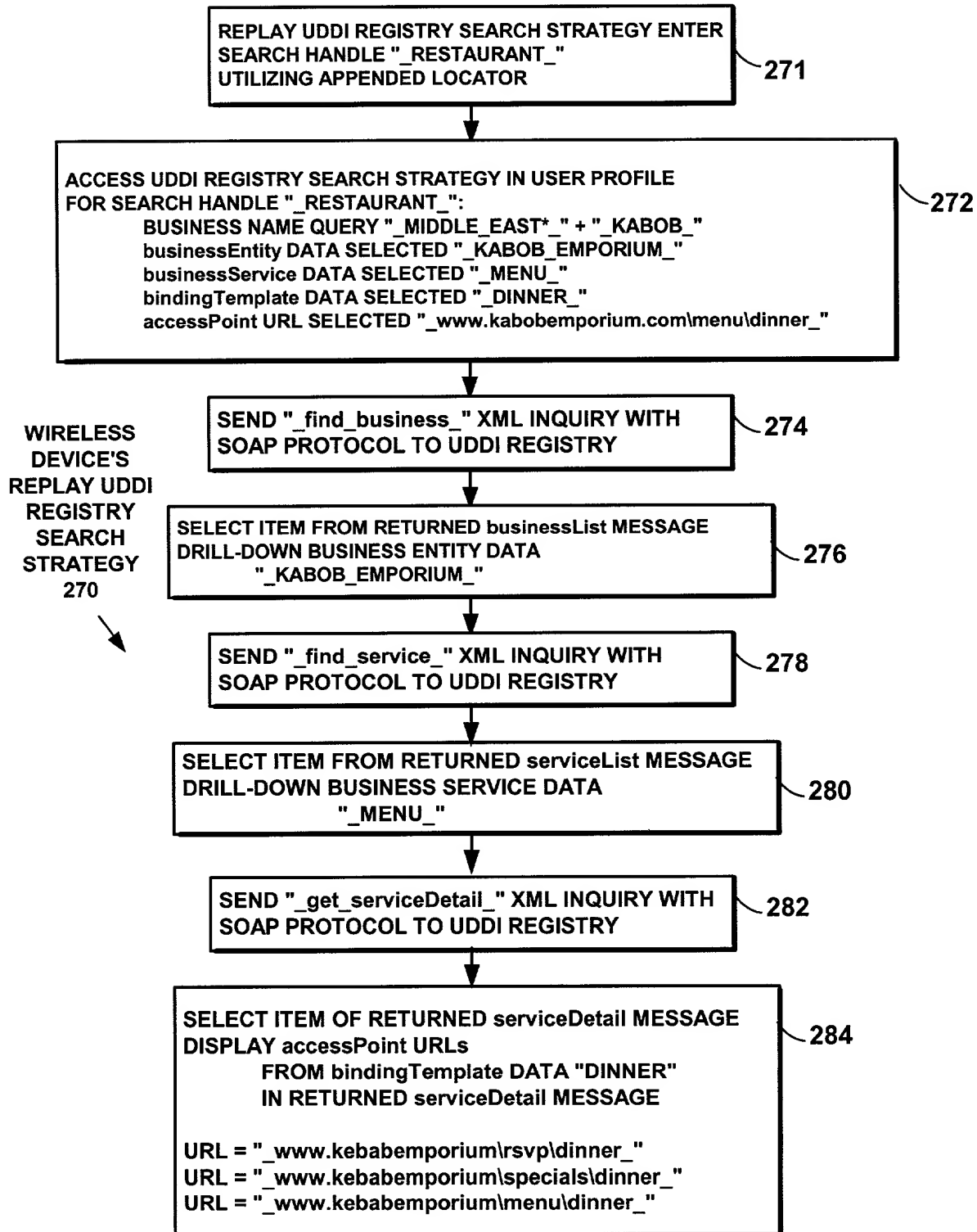


FIG. 3A

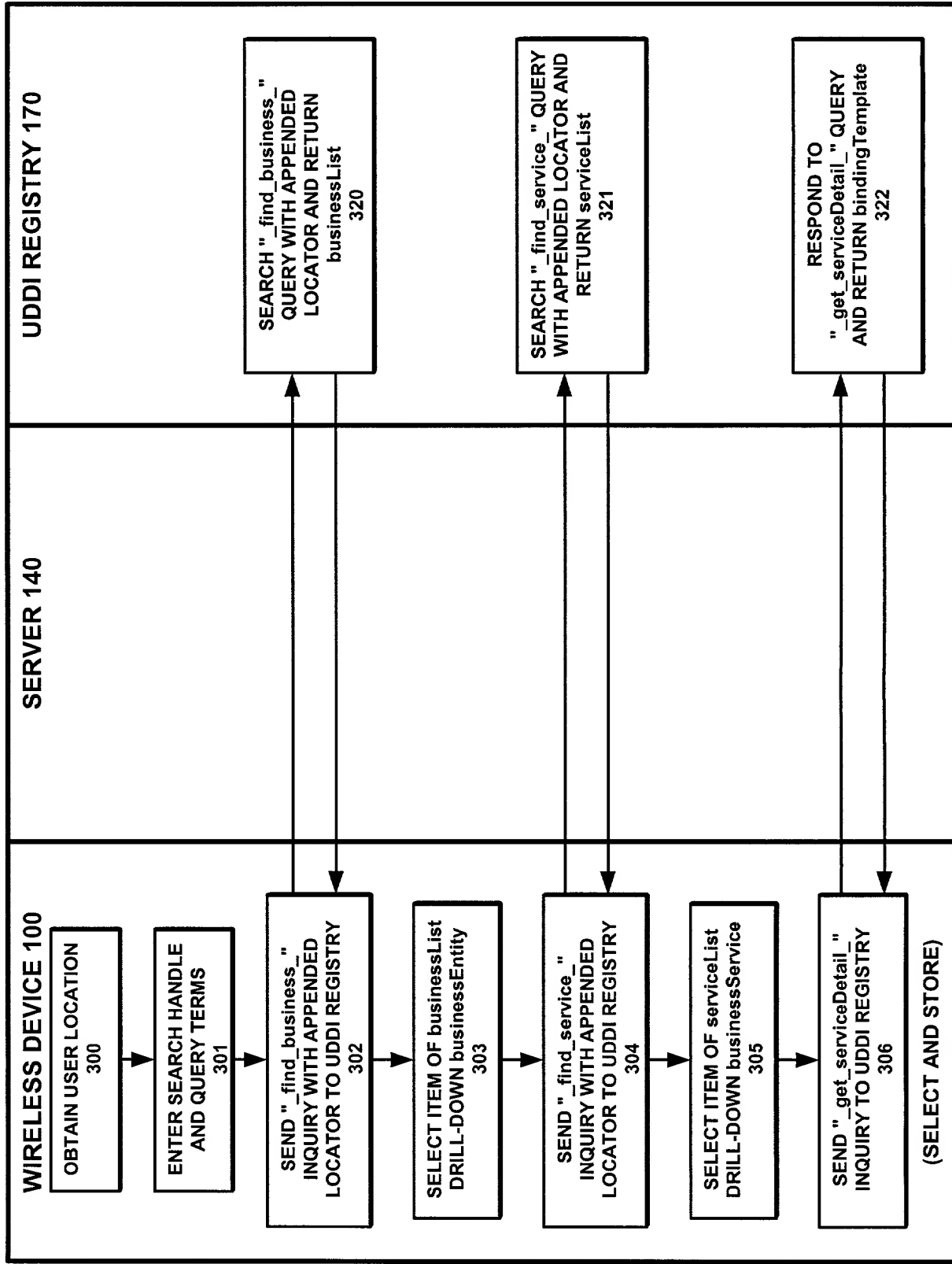


FIG. 3B

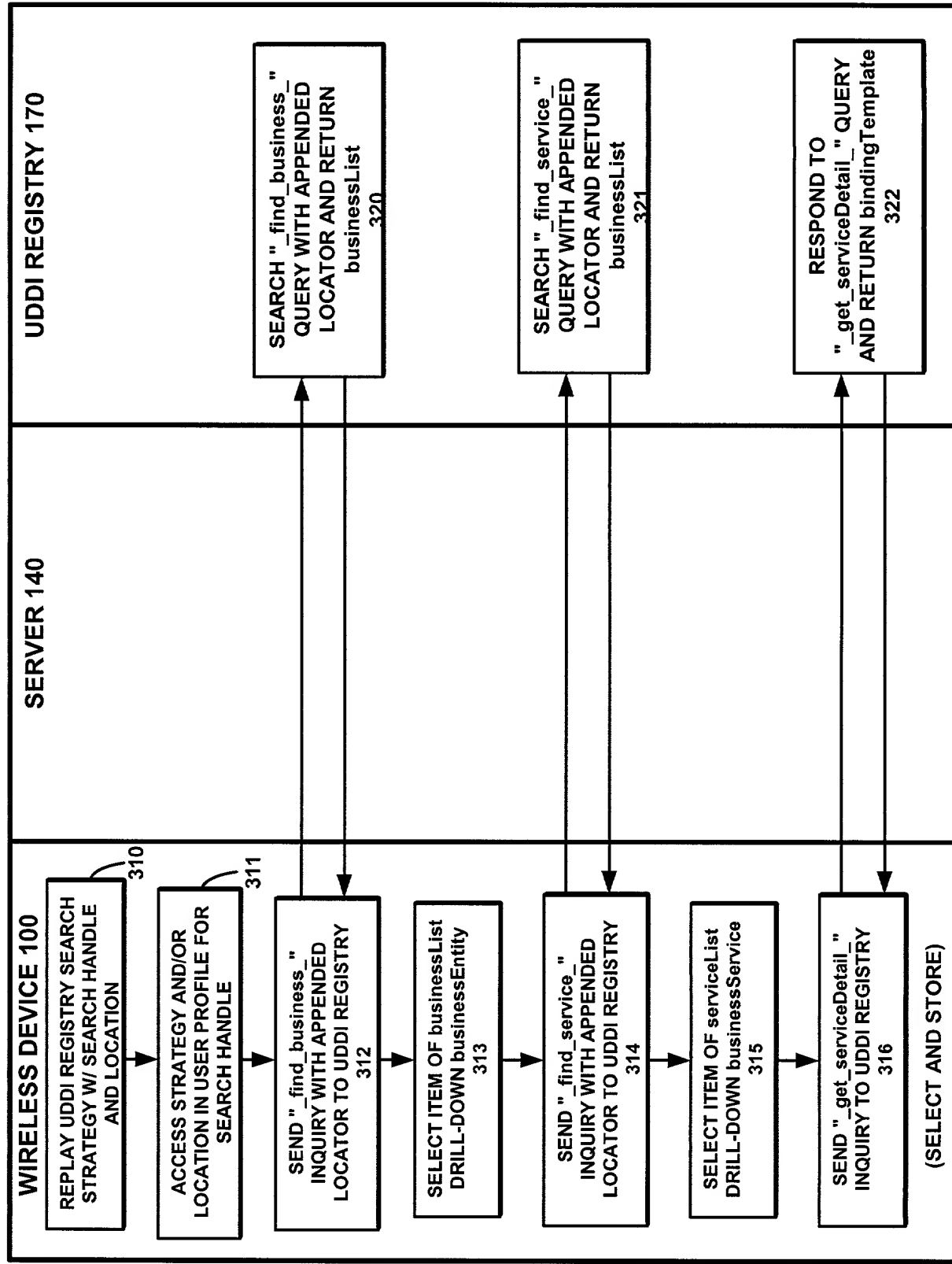


FIG. 4

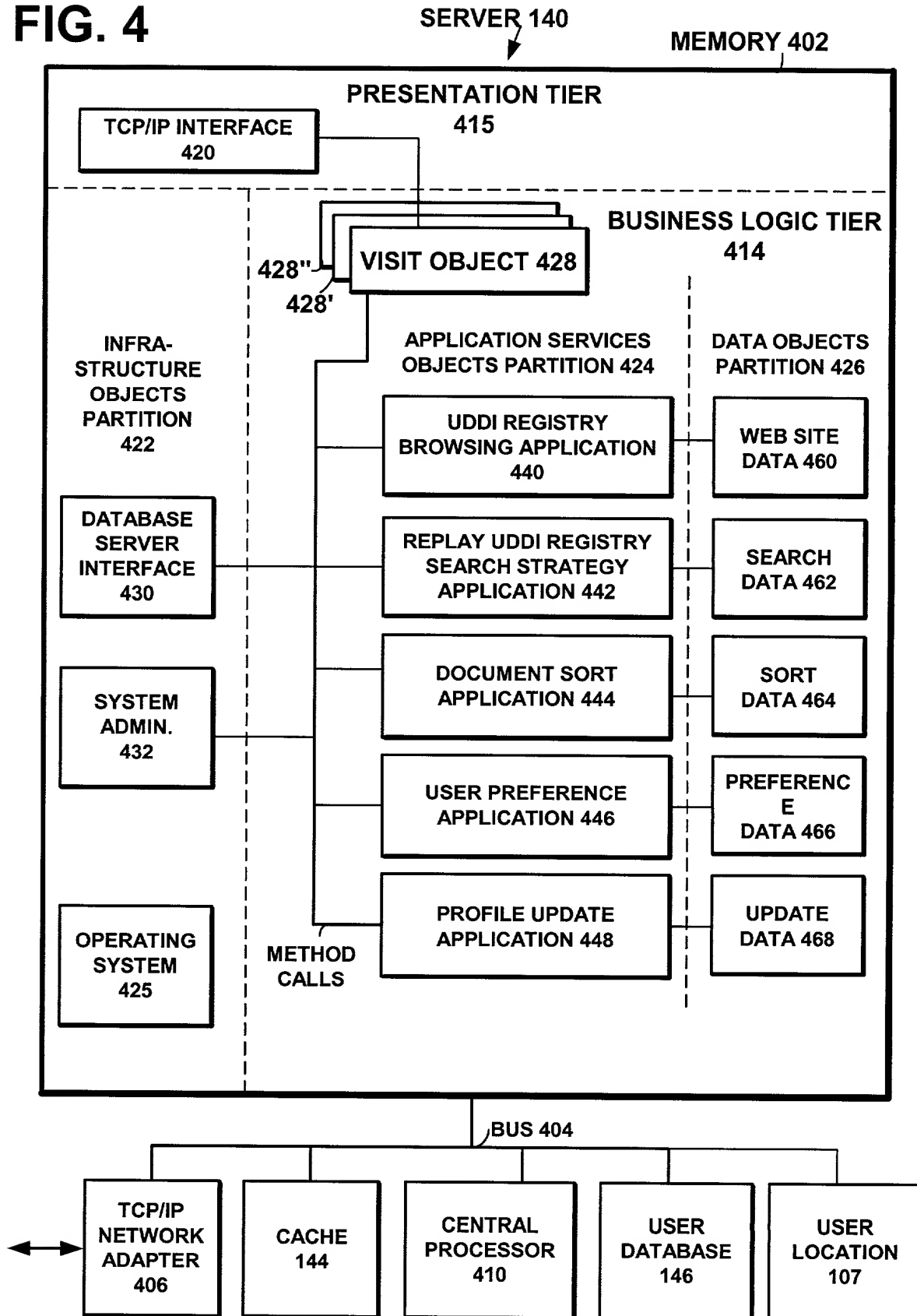


FIG. 4A

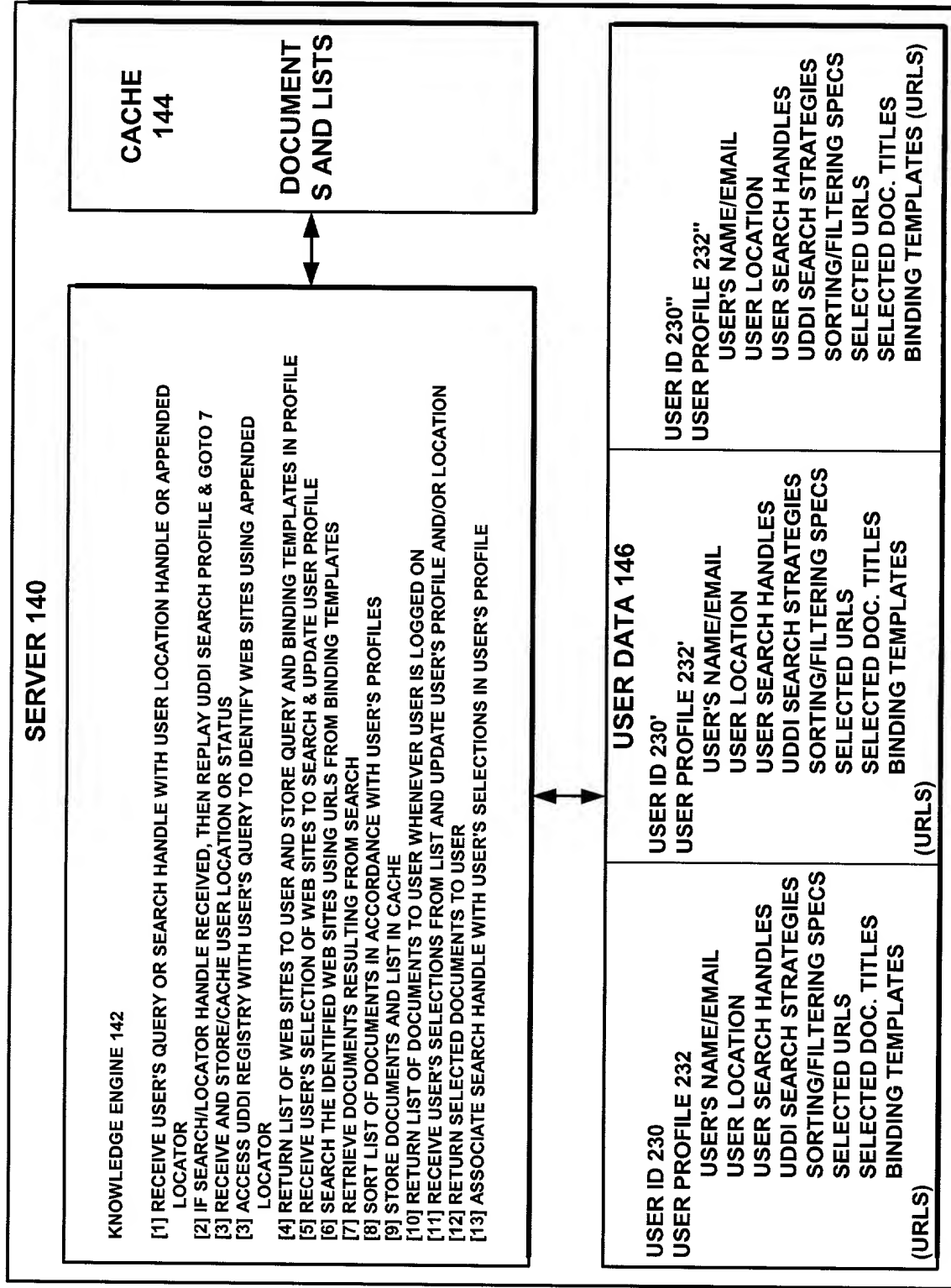
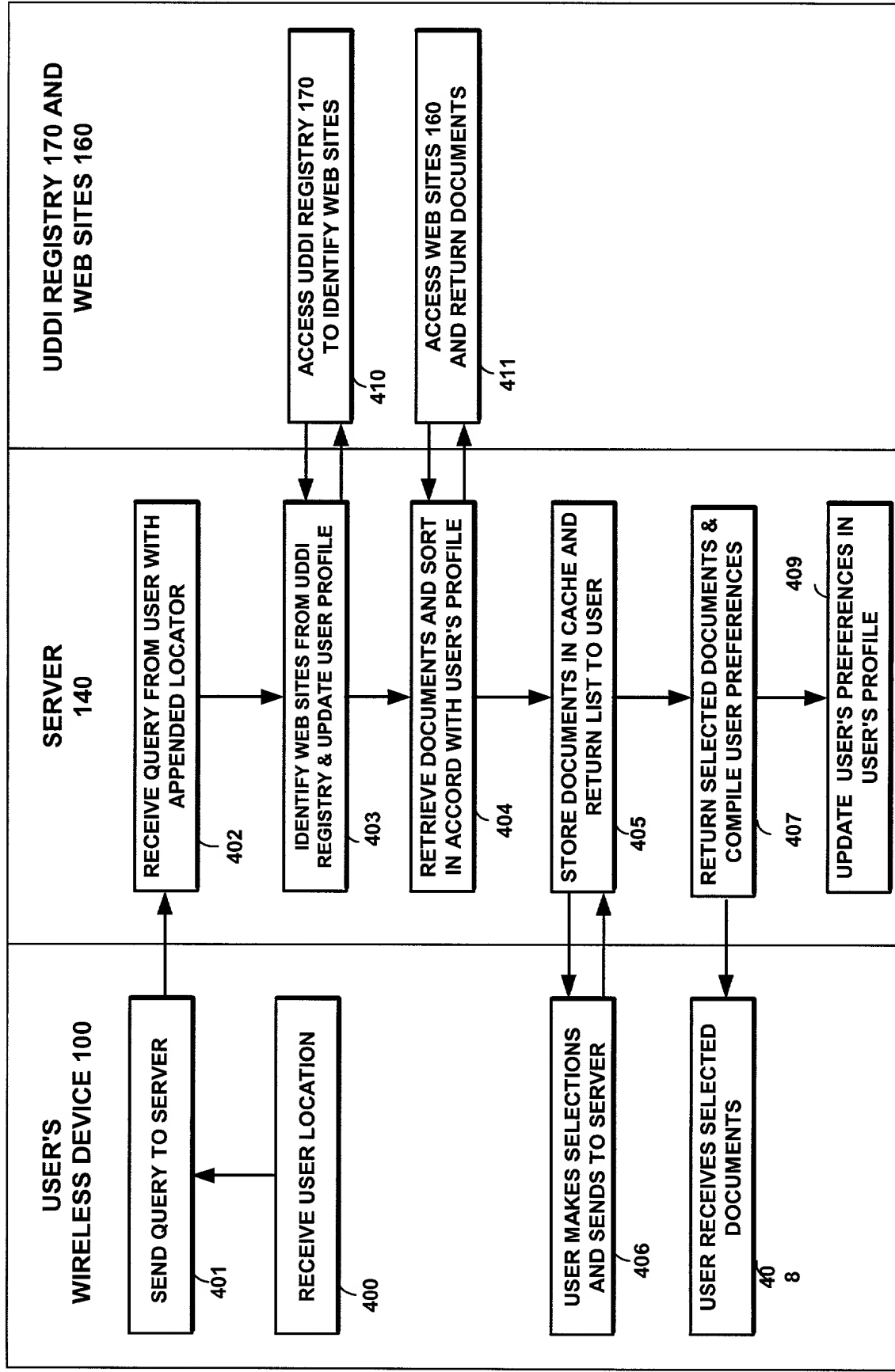


FIG. 4B



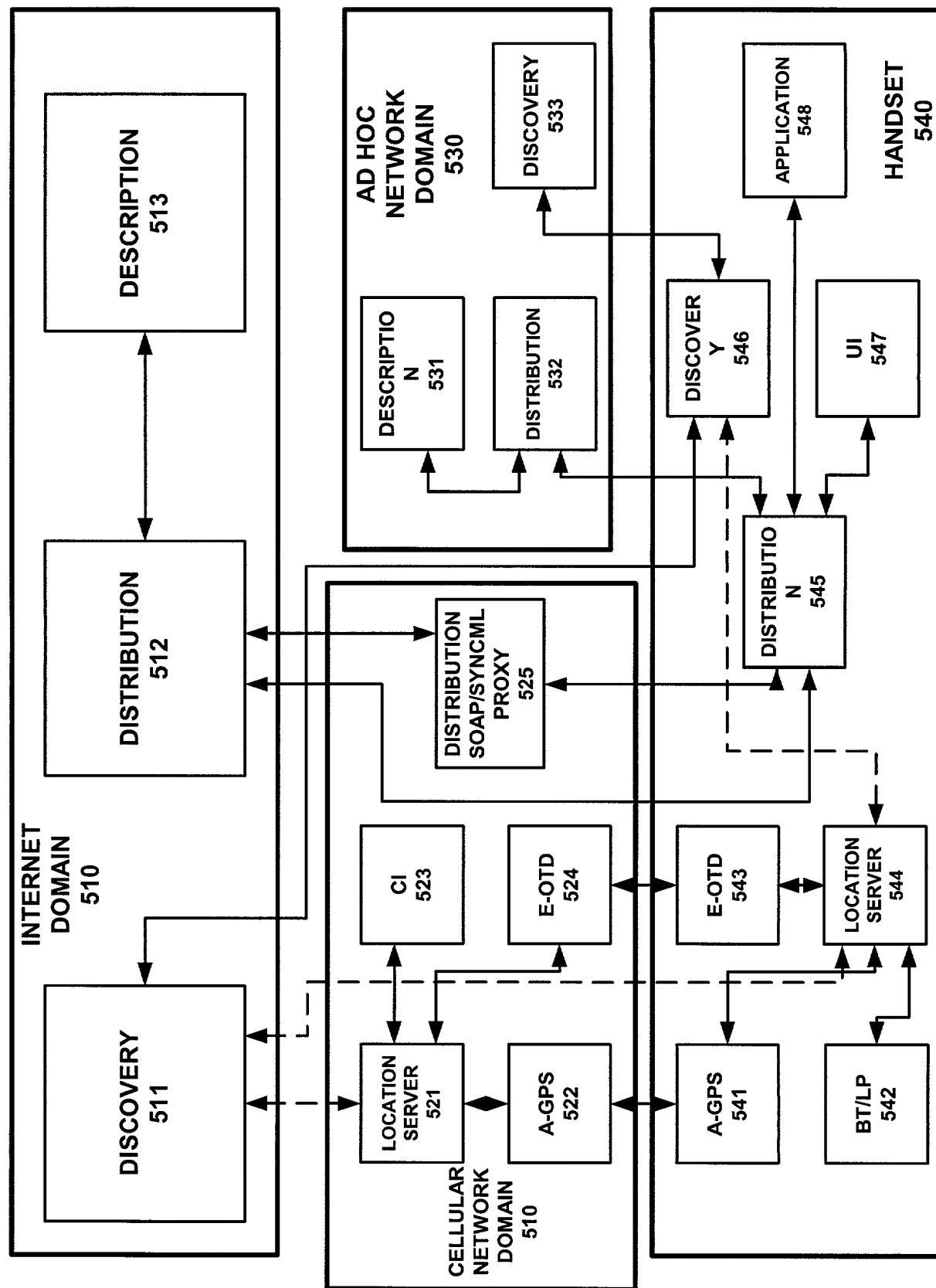


FIG. 5

FIG. 6

